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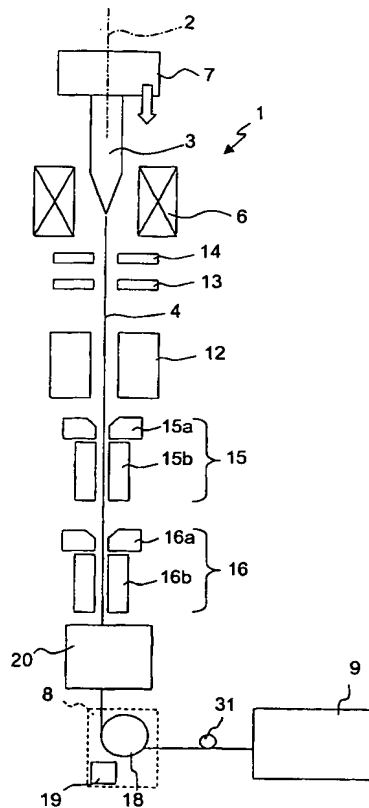
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(54) Title: METHOD FOR PRODUCING AN OPTICAL FIBER HAVING LOW POLARIZATION MODE DISPERSION



(57) Abstract: Method for producing an optical fiber having low polarization mode dispersion, comprising the steps of a) providing an optical fiber preform of glass material; b) heating the glass material of an end portion of the optical fiber preform; c) drawing the heated glass material at a drawing speed V to form an optical fiber, the drawn glass material having a viscous zone (4a); d) applying to the optical fiber (4) a substantially sinusoidal spin, which is transmitted to the viscous zone (4a); characterized in that the spin function frequency  $\nu$ , the viscous zone (4a) length L and the drawing speed V are such that both a torsion and at least a 50% detorsion are applied to the viscous zone (4a).

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